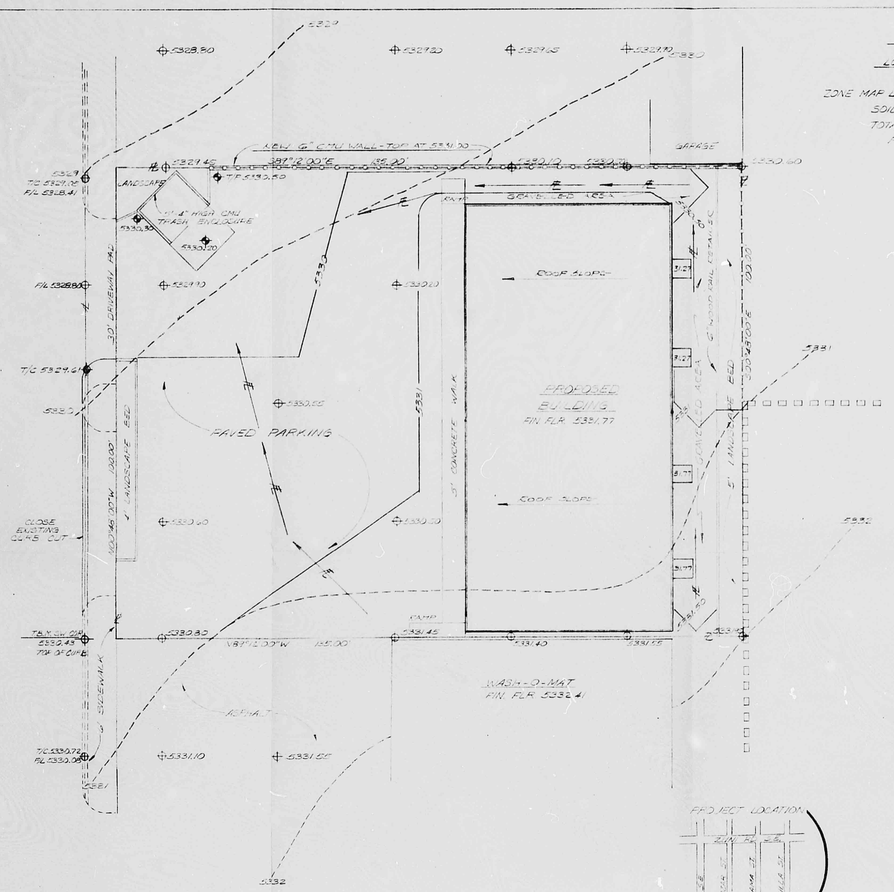
PUBLIC WORKS/HYDROLOGY

L19/D30



DRAINAGE PLAN

LOTS 5 AND 6, BLOCK 10, EMIL MANN ADDITION
ALBUQUERQUE, NEW MEXICO

ZONE MAP L-19 BENCHMARK L-13 ELEV 5327.69 FLOOD MAP 3.6
SOIL GROUP "B" TOTAL AREA: 13,500 SQ FT = 0.30 AC.
TOTAL AREA ROOFED OR PAVED: 11,550 SQ FT = 86%
FLOOD HAZARD AREAS IN CONTIGUOUS STREETS

HYDROLOGY:

OFF-SITE FLOW: PRIMARY CONTRIBUTION FROM EXISTING BUILDINGS AND UNPLATTED 15' ACCESS "ALLEY" TO THE SOUTH.
TOTAL AREA = 1800 SQ FT = 0.03 ACRES, ROOF AREA = 1800 S.F. = 90%
FROM: C = 0.76 PER DPM 22.2.1, I = 2.35"/HR × 2.2 = 5.17
∴ Q FOR = 5.17 × 0.03 × 0.90 CFS AND TOTAL RUN-OFF EXISTING PER CULVERT = 1.57 × 1800 S.F. = 1225 CUBIC FEET.
ON-SITE FLOW: C = 0.80, I = 5.17, & Q = 0.80 × 5.17 × 0.310 = 1.28 CFS
TOTAL RUN-OFF PER CULVERT = 1.28 × 1800 S.F. = 1575 CUBIC FEET.
EXISTING CONTIGUOUS FACILITIES ARE INADEQUATE.
CONSTRUCTION IN FLOWLINE IS DESIGNED TO ELIMINATE FLOODING IN CONTIGUOUS STREETS.
∴ APPROVAL OF PER DISCHARGE AT 90' DENE PAD IS REQUESTED.

HYDRAULICS:

5' AVALE SWALE: AT EAST & NORTH TO CARRY 1.0 CFS MAX.
n = 0.025 (GRAVEL), S = 0.0050, DEPTH = 4", AREA = 0.85 S.F., P = 3.0, R = 0.07
K = 0.071, C = 0.307 ∴ Q = 0.85 × 1.49 × 0.307 × 0.071 × 0.0050 = 1.10 CFS
90' DENE PAD WITH AVALE DEPTH OF 0.28' TO CARRY 2.75 CFS MAX.
n = 0.017 (CONCRETE), S = 0.00, AREA = 3.4 S.F., P = 9.0, R = 0.38, C = 1.49
K = 0.10 ∴ Q = 3.4 × 1.49 × 0.38 × 0.10 / 0.017 = 3.6 CFS — ADEQUATE

5' AVALE DETAIL
1/2" = 1'-0"

NOTES:

REQUIRED CONSTRUCTION FOR ADEQUATE DOWNSTREAM FACILITIES (FA ISCOUNTS CELIBE SYSTEM PHASE II, PROJECT # 1323) IS PROBABLY IN THE DESIGN STAGE AND DATA IS NOT AVAILABLE FOR ANALYSIS.
LOT 5 & 6 WERE COMBINED IN 1964 BY BERNALILLO COUNTY TAX CONSOLIDATION ORDINANCE.
TAX # 101-054-000-434-210.3 INCLUDES BOTH LOTS.

L19/D30

RECEIVED JUN 05 1985 HYDROLOGY SECTION

△ REVISIONS - 6/4/85 FILE # L19/D30

DUANE LOGAN
CONSULTING CIVIL ENGINEER
501 KINLEY N.E., ALBUQUERQUE, N.M. (505) 243-6353

TITLE: DRAINAGE PLAN			
FOR: L.W. COOK			
AT: 5TH LOUISIANA BLVD. S.E.			
DESIGNED BY: DLL	DATE: 5-17-85		
DRAWN BY: DLL	DATE: 5/18/85		
CHECKED BY: CJR	DATE: 5-21-85		
PROJECT NO. H-110	MAP NO. L-19	SHEET 1	OF 1

N. M. 2100 DUANE LEE LOGAN REGISTERED PROFESSIONAL ENGINEER
5/21/85

R1 28 DATE 7-27-92 OP EJP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (NMA)(X-1977)

DIRECTOR

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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NOTARY PUBLIC

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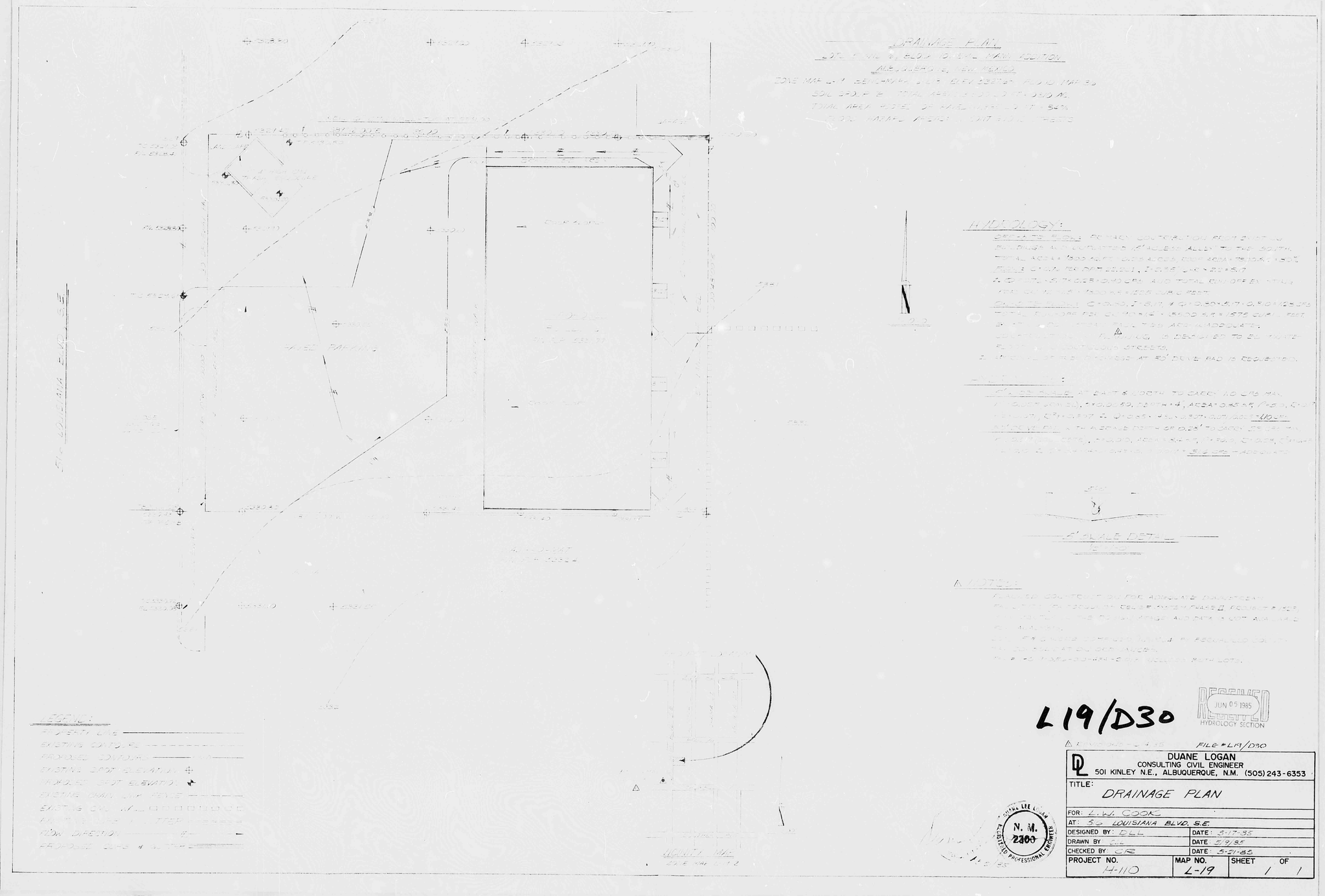
PLANS/PLATS ON FILE

FILE DESC: L19/D30

PLANS/PLATS 1

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F



PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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R# 28 DATE 3-27-02 OP EP

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Thomas T. Hollow 1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/03/02

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D